

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4902	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 18:26
S2	2457	356/124-127.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 18:26
S3	140842	(imag\$3 or picture\$2 or video\$3) same (produc\$4 or generat\$4) same qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 18:55
S4	4902	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 18:55
S5	1044	S4 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 18:55
S6	4826	(imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 18:55
S7	45	S4 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 18:56
S8	5	(imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 and zernike	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 20:23

## EAST Search History

S9	500	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 20:25
S10	4902	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 20:25
S11	4	S10 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 20:25
S12	374	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike and coefficient\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 21:37
S13	1478	zernike and coefficient\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 21:37
S14	4902	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 21:38
S15	8	S14 and S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 21:38
S16	2457	356/124-127.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 21:50

## EAST Search History

S17	1478	zernike and coefficient\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 21:50
S18	69	S16 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 21:50
S19	753	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 22:41
S20	80	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 and wavefront	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/13 22:54
S21	2521	351/205,208,221,246.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 08:54
S22	753	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 08:55
S23	20	S21 and S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 08:55
S24	4902	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 08:55

## EAST Search History

S25	14	S24 and S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 08:55
S26	1315	optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:04
S27	693	optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:05
S28	4902	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:05
S29	5	S28 and S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:05
S30	199	thomas near engel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:24
S31	34	thomas near engel and imag\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:24
S32	52	herbert near gross	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:57

## EAST Search History

S33	11	herbert near gross and imag\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 09:57
S34	2	("5066119").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:00
S35	2	("20020057495").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:01
S36	4962	358/504,509-510,296,302.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:12
S37	127	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront and intensity and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:13
S38	137	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront\$2 and intensit\$3 and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:13
S39	0	S36 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:13
S40	4902	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:13

## EAST Search History

S41	4	S40 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:13
S42	289	250/201.9.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:29
S43	693	optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:29
S44	24	S42 and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/14 10:29
S45	5	("4154530"   "4566765"   "4670639"   "4732148"   "5256853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/14 11:01
S46	3	("5751475"   "6011874"   "6262818").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/14 11:09
S47	3	("4518854"   "6163381"   "6653613").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/14 11:11
S48	1	(image and qualit\$3 and illumination and light and focus and intensity and centroid\$2 and wavefront\$2 and Zernike).clm.	US-PGPUB	OR	OFF	2008/09/14 12:05
S49	5112	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S50	2482	356/124-127.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22

## EAST Search History

S51	145881	(imag\$3 or picture\$2 or video\$3) same (produc\$4 or generat\$4) same qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S52	5112	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S53	1100	S52 and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S54	4990	(imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S55	51	S52 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S56	5	(imag\$3 or picture\$2 or video\$3) near (produc\$4 or generat\$4) near qualit\$3 and zernike	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S57	540	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S58	5112	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22

## EAST Search History

S59	5	S58 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S60	405	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and zernike and coefficient\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S61	1557	zernike and coefficient\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S62	5112	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S63	9	S62 and S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S64	2482	356/124-127.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S65	1557	zernike and coefficient\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S66	72	S64 and S65	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22



## EAST Search History

S67	812	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S68	88	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2 and wavefront	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S69	2637	351/205,208,221,246.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S70	812	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and (focus\$3 or sharpen\$3) and noise and intensity and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S71	22	S69 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S72	5112	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S73	15	S72 and S70	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S74	1397	optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22

## EAST Search History

S75	739	optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S76	5112	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S77	6	S76 and S75	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S78	200	thomas near engel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S79	34	thomas near engel and imag\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S80	52	herbert near gross	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S81	11	herbert near gross and imag\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S82	2	("5066119").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22

## EAST Search History

S83	2	("20020057495").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S84	5033	358/504,509-510,296,302.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S85	141	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront and intensity and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S86	151	(imag\$3 or picture\$2 or video\$3) near qualit\$3 and wavefront\$2 and intensit\$3 and centroid\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S87	0	S84 and S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S88	5112	382/254-255,270-271,274,312,325.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S89	5	S88 and S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S90	298	250/201.9.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22

## EAST Search History

S91	739	optical near4 (system\$2 or device\$2 or apparatus\$3) same imag\$3 and zernike and qualit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S92	28	S90 and S91	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/16 01:22
S93	5	("4154530"   "4566765"   "4670639"   "4732148"   "5256853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/16 01:22
S94	3	("5751475"   "6011874"   "6262818").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/16 01:22
S95	3	("4518854"   "6163381"   "6653613").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/16 01:22
S96	1	(image and qualit\$3 and illumination and light and focus and intensity and centroid\$2 and wavefront\$2 and Zernike).clm.	US-PGPUB	OR	OFF	2009/01/16 01:22